STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL	97-028

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER **MIL-STD-2500B**	2. DOCUMENT DATE (YYMMDD) **970822**

3. DOCUMENT TITLE
National Imagery Transmission Format

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

Table A-3, NITF image subheader, IREPBANDn field

(See Attachment)

5. REASON FOR RECOMMENDATION
The IREPBANDn field definition does not adquately describe how to use the field.

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DD Form 1426, OCT 89   *Previous editions are obsolete.*

FIELD	NAME	SIZE	VALUE RANGE	TYPE
START : the fields IREPBANDn through LUTDnm repeat the number of times indicated in the NBANDS field or the XBANDS field.				
IREPBANDn	n^{th} Band Representation. This field shall contain a valid indicator of the interpretation of the nth band of the image. Its purpose is to define the significance of the nth band of the image with regard to the general image type as recorded in IREP. However, the significance of each band in the image can be derived from the combination of the IREP, IREPBANDn, ICAT, and ISUBCATn fields. Valid values of the IREPBAND field depend on the value of the IREP field. User-defined values are allowed. However, when the followings bands are used, the standard values shall apply : • R, G, B respectively for a Red, Green, Blue representation of the band, • M for a monochrome representation of the band, • Y, Cb, Cr respectively for the 1st, 2nd, 3rd of a YcbCr601 compressed image, • LX, LY respectively for the X and Y bands of a location GRID, • EL for a 1D matrix data containing an elevation model, • MX for non-elevation 1D matrix data or nD matrix data. The field may contain BCS spaces when the band representation is implicit (eg. RGB/LUT image) or when no specific representation is defined for the band. User defined, BCS Spaces, M, R, G and B are the only values allowed for a MULTI image. • R, G and B are strongly recommended values for the IREPBANDn field. When R, G, B and M are present, RGB is the default for displayable bands. If R, G, B are not present, the default displayable band is the first M band. When R, G, B and M are not specified, the default displayable bands 1, 2 and 3 are R, G and B respectively. For consistency, multispectral images can't have more than one R, G and B band. The only valid values for RGB/LUT images is BCS spaces. • IREPBANDn shall be filled with the M value, if the band is monochrome. • When IREPBANDn are filled with BCS spaces, the bands are undefined. • User-defined values are reserved for specific interpretations and shall be registered with the custodian to regulate their use. The only valid values for MONO images is M.	2	BCS-A, Default is BCS spaces (0x20) Standard values are : R, G, B, M, Y, Cb, Cr, LX, LY, MX, EL. User-defined values are allowed through the registration process.	R

| | The only valid values for RGB images are R, G and B. The default IREPBANDn values for the 1st, 2nd and 3rd bands are R, G and B respectively.

The only valid values for YcbCr601 images are Y, Cb and Cr. The default IREPBANDn values for the 1st, 2nd and 3rd bands are Y, Cb and Cr601 respectively.

The only valid values for 2D are LX and LY. The only valid values for 1D are MX and EL. The only valid value for ND is MX. See Appendix 1 to Annex D for details. | | | |